

RNA,
or protein synthesis, by individual genes or by combinations such as
44/50/51, were not as rapid or complete as the shutoffs caused by

SPO1

infection, suggesting that we have yet to identify all components of
the
machinery for any of these shutoffs.

REGISTRY NUMBERS: 9014-24-8: RNA polymerase

DESCRIPTORS:

MAJOR CONCEPTS: Infection; Molecular Genetics--Biochemistry and
Molecular

Biophysics

BIOSYSTEMATIC NAMES: Endospore-forming Gram-Positives--Eubacteria,
Bacteria, Microorganisms; Enterobacteriaceae--Facultatively
Anaerobic

Gram-Negative Rods, Eubacteria, Bacteria, Microorganisms; Viruses--
Microorganisms

ORGANISMS: B. subtilis (Bacillus subtilis) (Endospore-forming
Gram-Positives)--host; E. coli (Enterobacteriaceae)--host;
bacteriophage SPO1 (Viruses)--pathogen

COMMON TAXONOMIC TERMS: Bacteria; Eubacteria; Microorganisms; Viruses

CHEMICALS & BIOCHEMICALS: DNA--synthesis; RNA--synthesis; RNA
polymerase; antibiotics--antibacterial-drug, antiinfective-drug,
lethal mechanisms; genes--cloned, expression; operon; protein--
synthesis

MISCELLANEOUS TERMS: burst-size; cell division; host-takeover;
knockout

mutations; transcription; Meeting Abstract; Meeting Abstract

CONCEPT CODES:

00520 General biology - Symposia, transactions and proceedings

03502 Genetics - General

10062 Biochemistry studies - Nucleic acids, purines and pyrimidines

10064 Biochemistry studies - Proteins, peptides and amino acids

10802 Enzymes - General and comparative studies: coenzymes

12512 Pathology - Therapy

31000 Physiology and biochemistry of bacteria

31500 Genetics of bacteria and viruses

33504 Virology - Bacteriophage

38502 Chemotherapy - General, methods and metabolism

38504 Chemotherapy - Antibacterial agents

BIOSYSTEMATIC CODES:

07810 Endospore-forming Gram-Positives

06702 Enterobacteriaceae

03000 Viruses

INVENTOR NAME SEARCH Charles R. Stewart

5/3/1 (Item 1 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2005 Dialog. All rts. reserv.

15225074 PMID: 14996809

Roles of genes 44, 50, and 51 in regulating gene expression and

C
28 files: 1977 - 2004
w/ SPO1

host

takeover during infection of Bacillus subtilis by bacteriophage SPO1 .

Sampath Aruna; Stewart Charles R

Department of Biochemistry and Cell Biology, Rice University,
Houston,
Texas 77251, USA.

Journal of bacteriology (United States) Mar 2004, 186 (6) p1785-92,

ISSN 0021-9193 Journal Code: 2985120R

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

5/3/2 (Item 2 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2005 Dialog. All rts. reserv.

12352387 PMID: 9657951

Genes and regulatory sites of the "host-takeover module" in the terminal

redundancy of Bacillus subtilis bacteriophage SPO1 .

Stewart C R ; Gaslightwala I; Hinata K; Krolikowski K A; Needleman D S;

Peng A S; Peterman M A; Tobias A; Wei P

Department of Biochemistry and Cell Biology, Rice University,
Houston,

Texas 77251-1892, USA. crs@bioc.rice.edu

Virology (UNITED STATES) Jul 5 1998, 246 (2) p329-40,
ISSN

0042-6822 Journal Code: 0110674

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

5/3/3 (Item 3 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2005 Dialog. All rts. reserv.

10972221 PMID: 7751311

Genes that protect against the host-killing activity of the E3 protein of

Bacillus subtilis bacteriophage SPO1 .

Wei P; Stewart C R

Department of Biochemistry and Cell Biology, Rice University,
Houston,

Texas 77005-1892, USA.

Journal of bacteriology (UNITED STATES) May 1995, 177 (10) p2933-7,

ISSN 0021-9193 Journal Code: 2985120R

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

5/3/4 (Item 4 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2005 Dialog. All rts. reserv.

10377588 PMID: 8253678
A cytotoxic early gene of Bacillus subtilis bacteriophage SP01 .
Wei P; Stewart C R
Department of Biochemistry and Cell Biology, Rice University,
Houston,
Texas 77251-1892.
Journal of bacteriology (UNITED STATES) Dec 1993, 175 (24)
p7887-900
, ISSN 0021-9193 Journal Code: 2985120R
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

5/3/5 (Item 5 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2005 Dialog. All rts. reserv.

07394322 PMID: 2414903
**Transcription of Bacillus subtilis plasmid pBD64 and
expression of
bacteriophage SP01 genes cloned therein.**
Curran J F; Stewart C R
Virology (UNITED STATES) Apr 15 1985, 142 (1) p98-111,
ISSN
0042-6822 Journal Code: 0110674
Contract/Grant No.: GM28488; GM; NIGMS
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

5/3/6 (Item 6 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2005 Dialog. All rts. reserv.

07394321 PMID: 2997983
Cloning and mapping of the SP01 genome.
Curran J F; Stewart C R
Virology (UNITED STATES) Apr 15 1985, 142 (1) p78-97,
ISSN
0042-6822 Journal Code: 0110674
Contract/Grant No.: GM-28488; GM; NIGMS
Publishing Model Print

Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

5/3/7 (Item 7 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2005 Dialog. All rts. reserv.

06885175 PMID: 6690720

Dissection of HA20, a double mutant of bacteriophage SPO1 .

Stewart C R

Journal of virology (UNITED STATES) Jan 1984, 49 (1) p300-1,
ISSN

0022-538X Journal Code: 0113724

Contract/Grant No.: GM28488; GM; NIGMS

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

5/3/8 (Item 8 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2005 Dialog. All rts. reserv.

05300451 PMID: 96587

**Terminal redundancy of "high frequency of recombination"
markers of**

Bacillus subtilis phage SPO1 .

Cregg J M; Stewart C R

Virology (UNITED STATES) May 15 1978, 86 (2) p530-41,
ISSN

0042-6822 Journal Code: 0110674

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

5/3/9 (Item 9 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2005 Dialog. All rts. reserv.

05300396 PMID: 96586

EcoRI cleavage of DNA from Bacillus subtilis phage SPO1 .

Cregg J M; Stewart C R

Virology (UNITED STATES) Apr 1978, 85 (2) p601-5, ISSN 0042-
6822

Journal Code: 0110674

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

5/3/10 (Item 10 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2005 Dialog. All rts. reserv.

05031501 PMID: 407713

Timing of initiation of DNA replication in SPO1 infection of
Bacillus
subtilis.

Cregg J M; Stewart C R

Virology (UNITED STATES) Jul 15 1977, 80 (2) p289-96,

ISSN

0042-6822 Journal Code: 0110674

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

5/3/11 (Item 11 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2005 Dialog. All rts. reserv.

04992198 PMID: 405794

Multiple origins of replication for Bacillus subtilis phage SPO1 .

Glassberg J; Franck M; Stewart C R

Virology (UNITED STATES) May 15 1977, 78 (2) p433-41,

ISSN

0042-6822 Journal Code: 0110674

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

5/3/12 (Item 12 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2005 Dialog. All rts. reserv.

04894476 PMID: 401897

Selective screening procedure for the isolation of heat-
and
cold-sensitive, DNA replication-deficient mutants of bacteriophage
SPO1

and preliminary characterization of the mutants isolated.

Glassberg J; Slomiany R A; Stewart C R

Journal of virology (UNITED STATES) Jan 1977, 21 (1) p54-60,

ISSN

0022-538X Journal Code: 0113724

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

5/3/13 (Item 13 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2005 Dialog. All rts. reserv.

04894436 PMID: 401896

Initiation and termination mutants of Bacillus subtilis bacteriophage

SPO1 .

Glassberg J; Franck M; Stewart C R

Journal of virology (UNITED STATES) Jan 1977, 21 (1) p147-52,

ISSN

0022-538X Journal Code: 0113724

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

5/3/14 (Item 1 from file: 5)

DIALOG(R) File 5:Biosis Previews(R)

(c) 2005 BIOSIS. All rts. reserv.

0014014790 BIOSIS NO.: 200200608301

Roles of specific genes in host-takeover of B. subtilis by bacteriophage

SPO1

AUTHOR: Sampath A (Reprint); Myles B (Reprint); Cox K (Reprint); Chen L (Reprint); Stewart C (Reprint)

AUTHOR ADDRESS: Rice University, Houston, TX, USA**USA

JOURNAL: Abstracts of the General Meeting of the American Society for Microbiology 102 p302 2002 2002

MEDIUM: print

CONFERENCE/MEETING: 102nd General Meeting of the American Society for Microbiology Salt Lake City, UT, USA May 19-23, 2002; 20020519

SPONSOR: American Society for Microbiology

ISSN: 1060-2011

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Abstract

LANGUAGE: English

5/3/15 (Item 2 from file: 5)

DIALOG(R) File 5:Biosis Previews(R)

(c) 2005 BIOSIS. All rts. reserv.

0011623116 BIOSIS NO.: 199800417363

SPO1 gene 56 product inhibits B. subtilis cell division

AUTHOR: Petti A A; Stewart C R

AUTHOR ADDRESS: Rice Univ., Houston, TX, USA**USA

JOURNAL: Abstracts of the General Meeting of the American Society for Microbiology 98 p362 1998 1998

MEDIUM: print

CONFERENCE/MEETING: 98th General Meeting of the American Society for

Microbiology Atlanta, Georgia, USA May 17-21, 1998; 19980517
SPONSOR: American Society for Microbiology
ISSN: 1060-2011
DOCUMENT TYPE: Meeting; Meeting Abstract; Meeting Poster
RECORD TYPE: Citation
LANGUAGE: English

5/3/16 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2005 BIOSIS. All rts. reserv.

0011623115 BIOSIS NO.: 199800417362
The early genes of Bacillus subtilis bacteriophage SP01
AUTHOR: Stewart C R (Reprint
AUTHOR ADDRESS: Rice Univ., Houston, TX, USA**USA
JOURNAL: Abstracts of the General Meeting of the American Society for
Microbiology 98 p362 1998 1998
MEDIUM: print
CONFERENCE/MEETING: 98th General Meeting of the American Society for
Microbiology Atlanta, Georgia, USA May 17-21, 1998; 19980517
SPONSOR: American Society for Microbiology
ISSN: 1060-2011
DOCUMENT TYPE: Meeting; Meeting Abstract; Meeting Poster
RECORD TYPE: Citation
LANGUAGE: English

5/3/17 (Item 4 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2005 BIOSIS. All rts. reserv.

0008610881 BIOSIS NO.: 199345041862
Early gene e3 of Bacillus subtilis bacteriophage SP01
AUTHOR: Wei Ping; Stewart Charles R
AUTHOR ADDRESS: Dep. Biochem. Cell Biol., Rice Univ., Houston, TX
77251-1892, USA**USA
JOURNAL: Abstracts of the General Meeting of the American Society for
Microbiology 93 (0): p292 1993
CONFERENCE/MEETING: 93rd General Meeting of the American Society for
Microbiology Atlanta, Georgia, USA May 16-20, 1993; 19930516
ISSN: 1060-2011
DOCUMENT TYPE: Meeting
RECORD TYPE: Citation
LANGUAGE: English

5/3/18 (Item 5 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2005 BIOSIS. All rts. reserv.

0008583845 BIOSIS NO.: 199345014825
SP01 and related bacteriophages
BOOK TITLE: Bacillus subtilis and other gram-positive bacteria:
Biochemistry, physiology and molecular genetics
AUTHOR: Stewart Charles R
BOOK AUTHOR/EDITOR: Hoch J A (Editor); Losick R (Editor)

AUTHOR ADDRESS: Dep. Biochem. Cell Biol., Rice Univ., Houston, TX
77251,
USA**USA
p813-829 1993
BOOK PUBLISHER: American Society for Microbiology (ASM) (a), Books
Division, 1325 Massachusetts Ave. NW, Washington, DC
20005-4171, USA
ISBN: 1-55581-053-5
DOCUMENT TYPE: Article
RECORD TYPE: Citation
LANGUAGE: English

5/3/19 (Item 6 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2005 BIOSIS. All rts. reserv.

0004694430 BIOSIS NO.: 198580003325
CLONING AND MAPPING OF THE PHAGE SPO-1 GENOME
AUTHOR: CURRAN J F (Reprint); STEWART C R
AUTHOR ADDRESS: DEP BIOLOGY, RICE UNIV, HOUSTON, TEXAS 77005, USA**USA
JOURNAL: Virology 142 (1): p78-97 1985
ISSN: 0042-6822
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

5/3/20 (Item 7 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2005 BIOSIS. All rts. reserv.

0002475578 BIOSIS NO.: 197866062062
ECO-R-I CLEAVAGE OF DNA FROM BACILLUS-SUBTILIS PHAGE SPO-1
AUTHOR: CREGG J M (Reprint); STEWART C R
AUTHOR ADDRESS: DEP BIOL, RICE UNIV, HOUSTON, TEX 77001, USA**USA
JOURNAL: Virology 85 (2): p601-605 1978
ISSN: 0042-6822
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

5/3/21 (Item 8 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2005 BIOSIS. All rts. reserv.

0002220435 BIOSIS NO.: 197764068792
**TIMING OF INITIATION OF DNA REPLICATION IN PHAGE SPO-1 INFECTION OF
BACILLUS-SUBTILIS**
AUTHOR: CREGG J M; STEWART C R
JOURNAL: Virology 80 (2): p289-296 1977
ISSN: 0042-6822
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: Unspecified

5/3/22 (Item 9 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2005 BIOSIS. All rts. reserv.

0002123716 BIOSIS NO.: 197763044572
SELECTIVE SCREENING PROCEDURE FOR THE ISOLATION OF HEAT SENSITIVE AND COLD

SENSITIVE DNA REPLICATION DEFICIENT MUTANTS OF BACTERIO PHAGE SPO-1 AND

PRELIMINARY CHARACTERIZATION OF THE MUTANTS ISOLATED

AUTHOR: GLASSBERG J; SLOMIANY R A; STEWART C R
JOURNAL: Journal of Virology 21 (1): p54-60 1977
ISSN: 0022-538X
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: Unspecified

5/3/23 (Item 1 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2005 Elsevier Science B.V. All rts. reserv.

01845943 EMBASE No: 1981217100
Limited role of parental DNA in replication during infection by Bacillus

subtilis phage SPO1

Stewart C.R. ; Franck M.

Dept. Biol., Rice Univ., Houston, Tex. 77001 United States
Virology (VIROLOGY) (United States) 1981, 110/1 (221-224)
CODEN: VIRLA
DOCUMENT TYPE: Journal
LANGUAGE: ENGLISH

5/3/24 (Item 1 from file: 144)
DIALOG(R)File 144:Pascal
(c) 2005 INIST/CNRS. All rts. reserv.

11342574 PASCAL No.: 94-0164711
A cytotoxic early gene of Bacillus subtilis bacteriophage SPO1
PING WEI; STEWART C R
Rice univ., dep. biochemistry cell biology, Houston TX 77251-1892,
USA
Journal: Journal of bacteriology, 1993, 175 (24) 7887-7900
Language: English

5/3/25 (Item 2 from file: 144)
DIALOG(R)File 144:Pascal
(c) 2005 INIST/CNRS. All rts. reserv.

02056124 PASCAL No.: 78-0391879
TERMINAL REDUNDANCY OF "HIGH FREQUENCY OF RECOMBINATION" MARKERS OF BACILLUS SUBTILIS SPO1 .
CREGG J M; STEWART C R
DEP. BIOL., RICE UNIV., HOUSTON, TEX. 77001

Journal: VIROLOGY, 1978, 86 (2) 530-541
Language: ENGLISH

5/3/26 (Item 1 from file: 399)

DIALOG(R) File 399:CA SEARCH(R)

(c) 2005 American Chemical Society. All rts. reserv.

142291328 CA: 142(16)291328q PATENT

Protein sequences of antimicrobial proteins isolated from SP01
bacteriophage

INVENTOR(AUTHOR): Stewart, Charles R.; Shamoo, A. Yousif

LOCATION: USA

ASSIGNEE: Rice University

PATENT: U.S. Pat. Appl. Publ. ; US 20050054571 A1 DATE: 20050310

APPLICATION: US 809761 (20040325) *US PV457287 (20030325)

PAGES: 36 pp. CODEN: USXXCO LANGUAGE: English CLASS: 514012000;
A61K-038/16A; C07K-014/005B

5/3/27 (Item 2 from file: 399)

DIALOG(R) File 399:CA SEARCH(R)

(c) 2005 American Chemical Society. All rts. reserv.

100048397 CA: 100(7)48397v JOURNAL

Dissection of HA20, a double mutant of bacteriophage SP01

AUTHOR(S): Stewart, Charles R.

LOCATION: Dep. Biol., Rice Univ., Houston, TX, 77005, USA

JOURNAL: J. Virol. DATE: 1984 VOLUME: 49 NUMBER: 1 PAGES: 300-1

CODEN: JOVIAM ISSN: 0022-538X LANGUAGE: English

5/3/28 (Item 3 from file: 399)

DIALOG(R) File 399:CA SEARCH(R)

(c) 2005 American Chemical Society. All rts. reserv.

97139536 CA: 97(17)139536a JOURNAL

Recombination and expression of a cloned fragment of the DNA of
Bacillus

subtilis bacteriophage SP01

AUTHOR(S): Curran, James F.; Stewart, Charles R.

LOCATION: Dep. Biol., Rice Univ., Houston, TX, 77001, USA

JOURNAL: Virology DATE: 1982 VOLUME: 120 NUMBER: 2 PAGES: 307-17

CODEN: VIRLAX ISSN: 0042-6822 LANGUAGE: English

?

INVENTOR NAME SEARCH A. Yousif Shamoo

7/K/1 (Item 1 from file: 399)

DIALOG(R) File 399:CA SEARCH(R)

(c) 2005 American Chemical Society. All rts. reserv.

142291328 CA: 142(16)291328q PATENT

Protein sequences of antimicrobial proteins isolated from SP01
bacteriophage

INVENTOR(AUTHOR): Stewart, Charles R.; Shamoo, A. Yousif

PG Pub only Pub.

LOCATION: USA
ASSIGNEE: Rice University
PATENT: U.S. Pat. Appl. Publ. ; US 20050054571 A1 DATE: 20050310
APPLICATION: US 809761 (20040325) *US PV457287 (20030325)
PAGES: 36 pp. CODEN: USXXCO LANGUAGE: English CLASS: 514012000;
A61K-038/16A; C07K-014/005B

DIALOG INVENTOR NAME SEARCH STRATEGY

Set	Items	Description
S1	4592	AU=((STEWART, C?) OR (STEWART C.R.) OR (STEWART C.?))
S2	49	S1 AND SP01
S3	11048	AU=((STEWART, C?) OR (STEWART C.R.) OR (STEWART C.?)) OR
(S-		TEWART C?))
S4	100	S3 AND SP01
S5	28	RD (unique items)
S6	742	AU=((SHAMOO, A?) OR (SHAMOO A?) OR (SHAMOO A.Y.) OR
(SHAMOO		AY))
S7	1	S6 AND SP01
?		